

Menu

Menu A flexible and feature-rich dropdown menu component for creating context menus, navigation dropdowns, and action menus. Supports icons, descriptions, multi-column layout, various positioning options, and full accessibility. How to use ■ `import { AavaMenuComponent } from "@aava/play-core"` ; Basic Usage ■ The Menu component provides a dropdown interface that can be positioned relative to a trigger element. It supports various menu items with different states and configurations. Default behavior: Bottom positioning, single column layout, with icons and titles. Usage: Pass an array of menu items to the items input and control visibility with the visible input. With Icons ■ Menu items can display icons alongside their labels for better visual recognition and user experience. How: Add an icon property to menu items with the icon name. When to use: For quick recognition, consistent visual language, or when space allows. With Descriptions ■ Menu items can include descriptions to provide additional context or information about each option. How: Add a description property to menu items. When to use: For complex menus where items need additional explanation or context. Disabled Items ■ Menu items can be disabled to indicate unavailable options or actions that require certain conditions. How: Set `disabled: true` on menu items. When to use: For conditional actions, permission-based menus, or unavailable features. Features ■ Flexible Positioning ■ 8 Position Options : top, bottom, left, right, and their start/end variants Alignment Control : start, center, end alignment within positioned area Offset Configuration : Customizable spacing from trigger element Auto Flip : Automatic position adjustment when space is limited Rich Content Support ■ Icons : Lucide icons with customizable size and colors Descriptions : Additional text for context and explanation Active States : Visual indication of currently active/selected items Disabled States : Clear indication of unavailable options Layout Options ■ Multi-Column : Configurable column layout for extensive menus Responsive Design : Adapts to different screen sizes and orientations Flexible Sizing : Automatic width adjustment based on content Custom Styling : Extensive CSS custom properties for theming Accessibility ■ Keyboard Navigation : Full keyboard support with arrow keys Screen Reader : Proper ARIA attributes and semantic structure Focus Management : Clear focus indicators and logical tab order High Contrast : Support for high contrast mode and color preferences API Reference ■ Inputs ■ Property Type Default Description items `MenuItem[]` [] Array of menu items to display visible boolean false Controls menu visibility itemsPerColumn number 3 Number of items per column in multi-column layout positionConfig `MenuPositionConfig` See default config below Configuration for menu positioning displayOptions `MenuItemDisplayOptions` See default options below Configuration for item display customStyles `Record<string, string> {}` Custom CSS styles to apply to the menu Outputs ■ Property Type Description itemSelected `EventEmitter<{route?: string; label: string; item: MenuItem}>` Emitted when a menu item is clicked MenuItem Interface ■ `interface MenuItem { label : string ; // Display text for the menu item description ? : string ; // Optional description text route ? : string ; // Optional route for navigation`

```

icon ? : string ; // Optional icon name (Lucide) disabled ? : boolean ; // Whether the item is
disabled divider ? : boolean ; // Whether to show a divider line customData ? : Record < string ,
unknown > ; // Custom data for the item } MenuPositionConfig Interface ■ interface
MenuPositionConfig { position ? : MenuPosition ; // Position relative to trigger alignment ? :
MenuAlignment ; // Alignment within positioned area offset ? : number ; // Distance from trigger
element autoFlip ? : boolean ; // Auto-adjust position if needed } type MenuPosition = | "top" |
"bottom" | "left" | "right" | "top-start" | "top-end" | "bottom-start" | "bottom-end" ; type
MenuAlignment = "start" | "center" | "end" ; MenuItemDisplayOptions Interface ■ interface
MenuItemDisplayOptions { showIcon ? : boolean ; // Whether to show icons showTitle ? : boolean
; // Whether to show item titles showDescription ? : boolean ; // Whether to show descriptions
iconSize ? : number ; // Size of icons in pixels titleWeight ? : "normal" | "medium" | "semibold" |
"bold" ; // Font weight for titles descriptionSize ? : "xs" | "sm" | "md" | "lg" ; // Font size for
descriptions } Default Configurations ■ // Default position config { position : 'bottom' , alignment :
'start' , offset : 8 , } // Default display options { showIcon : true , showTitle : true , showDescription :
true , iconSize : 24 , titleWeight : 'medium' , descriptionSize : 'sm' , } CSS Custom Properties ■
The component uses CSS custom properties for theming: Property Description --menu-min-width
Minimum width of the menu --menu-background Background color of the menu
--menu-border-radius Border radius of the menu --menu-shadow Box shadow of the menu
--menu-border Border of the menu --menu-padding Padding inside the menu --menu-margin-top
Top margin for positioning --menu-transform-y Transform distance for animations
--menu-transition Transition timing for animations --menu-z-index Z-index for layering
--menu-columns-gap Gap between columns --menu-column-min-width Minimum width of each
column --menu-item-gap Gap between icon and content --menu-item-padding Padding of menu
items --menu-item-border-radius Border radius of menu items --menu-item-background
Background of menu items --menu-item-color Text color of menu items
--menu-item-hover-background Background on hover --menu-item-hover-color Text color on hover
--menu-item-active-background Background when active --menu-item-active-color Text color
when active --menu-item-disabled-background Background when disabled
--menu-item-disabled-color Text color when disabled --menu-item-margin Margin of menu items
--menu-item-first-margin-top Top margin of first item --menu-item-last-margin-bottom Bottom
margin of last item --menu-item-transition Transition timing for items --menu-item-icon-size Size of
item icons --menu-item-icon-color Color of item icons --menu-item-icon-active-color Color of active
item icons --menu-item-icon-transition Transition timing for icons --menu-item-hover-icon-filter
Icon filter on hover --menu-item-active-icon-filter Icon filter when active --menu-item-content-gap
Gap between title and description --menu-item-title-font-weight Font weight of titles
--menu-item-title-font-size Font size of titles --menu-item-title-color Color of titles
--menu-item-title-active-color Color of active titles --menu-item-title-active-font-weight Font weight
of active titles --menu-item-title-line-height Line height of titles --menu-item-title-transition
Transition timing for titles --menu-item-description-font-size Font size of descriptions
--menu-item-description-color Color of descriptions --menu-item-description-active-color Color of

```

active descriptions --menu-item-description-line-height Line height of descriptions

--menu-item-description-transition Transition timing for descriptions

Best Practices

- **Content Guidelines**
- **Clear Labels** : Use concise, descriptive labels for menu items
- Consistent Icons** : Use consistent iconography throughout the menu
- Helpful Descriptions** : Provide context when items need explanation
- Logical Grouping** : Group related items together in the menu
- Interaction Design**
- **Trigger Elements** : Ensure trigger elements are clearly identifiable
- Positioning** : Choose positioning that doesn't obscure important content
- Keyboard Support** : Test keyboard navigation thoroughly
- Touch Support** : Consider touch interactions on mobile devices
- Accessibility**
- **ARIA Labels** : Provide appropriate ARIA labels for screen readers
- Focus Management** : Ensure proper focus handling when menu opens/closes
- Color Contrast** : Maintain sufficient contrast for all text and icons
- Motion Sensitivity** : Respect user motion preferences
- Performance**
- **Efficient Rendering** : Use OnPush change detection for better performance
- Event Handling** : Properly handle click events to prevent bubbling
- Memory Management** : Clean up event listeners and subscriptions
- Lazy Loading** : Consider lazy loading for large menus

Use Cases

- **Context Menus**
- **Right-click context menus for actions on selected items**:

```
< aava - menu [ items ] =  
"contextMenuItems" [ visible ] = "showContextMenu" [ positionConfig ] = "{ position: 'bottom-start'  
}" ( itemSelected ) = "handleContextMenuAction($event)" > < / aava - menu >
```
- Navigation Dropdowns**
- **Dropdown navigation menus for main navigation**:

```
< aava - menu [ items ] =  
"navigationItems" [ visible ] = "showNavMenu" [ positionConfig ] = "{ position: 'bottom', alignment:  
'center' }" [ displayOptions ] = "{ showIcon: true, showDescription: false }" > < / aava - menu >
```
- Action Menus**
- **Action menus for buttons or toolbar items**:

```
< aava - menu [ items ] = "actionItems"  
[ visible ] = "showActionMenu" [ positionConfig ] = "{ position: 'bottom-end' }" [ itemsPerColumn ] =  
"1" > < / aava - menu >
```
- Application Launchers**
- **Multi-column menus for application or feature launchers**:

```
< aava - menu [ items ] = "applItems" [ visible ] = "showAppMenu" [ positionConfig ] = "{  
position: 'bottom', alignment: 'center' }" [ itemsPerColumn ] = "4" [ displayOptions ] = "{ showIcon:  
true, showDescription: true }" > < / aava - menu >
```

Accessibility Guidelines

- **Keyboard Navigation**
- **The menu supports full keyboard navigation**:
 - Enter/Space** : Activate the currently focused menu item
 - Arrow Keys** : Navigate between menu items
 - Escape** : Close the menu
 - Tab** : Move focus to next focusable element
- Screen Reader Support**
- **The component provides comprehensive screen reader support**:
 - ARIA Labels** : Proper labeling for menu and menu items
 - Role Attributes** : Correct ARIA roles for menu structure
 - State Announcements** : Clear announcements of menu state changes
 - Focus Indicators** : Visible focus indicators for keyboard users
- Color and Contrast**
- **WCAG Compliance** : All text and icons meet WCAG AA contrast ratios
- High Contrast Mode** : Component works with system high contrast settings
- Color Independence** : Information is not conveyed by color alone
- Motion and Animation**
- **Respects Preferences** : Animation respects user motion preferences
- Reduced Motion** : Provides alternative interaction for motion-sensitive users
- Clear Feedback** : Visual feedback is immediate and clear

```

<div class="menu-container">
  <button (click)="toggleMenu()">Open Menu</button>

  <aava-menu
    [items]="menuItems"
    [visible]="showMenu"
    (itemSelected)="handleItemSelected($event)">
  </aava-menu>
</div>

```

```

import { Component } from "@angular/core";
import { AavaMenuComponent } from "@aava/play-core";

@Component({
  selector: "app-menu-basic",
  standalone: true,
  imports: [AavaMenuComponent],
})
export class MenuBasicComponent {
  showMenu = false;

  menuItems = [
    { label: "Dashboard", route: "/dashboard" },
    { label: "Profile", route: "/profile" },
    { label: "Settings", route: "/settings" },
    { label: "Help", route: "/help" },
    { label: "Logout", route: "/logout" },
  ];

  toggleMenu() {
    this.showMenu = !this.showMenu;
  }

  handleItemSelected(event: any) {
    console.log("Selected:", event.label);
    this.showMenu = false;
  }
}

```

```

<div class="menu-container">
  <button (click)="toggleMenu()">Menu with Icons</button>

  <aava-menu
    [items]="menuItems"
    [visible]="showMenu"
    [displayOptions]="{ showIcon: true, showTitle: true }"
    (itemSelected)="handleItemSelected($event)">
  </aava-menu>
</div>

```

```

import { Component } from "@angular/core";
import { AavaMenuComponent } from "@aava/play-core";

@Component({
  selector: "app-menu-with-icons",
  standalone: true,
  imports: [AavaMenuComponent],
})
export class MenuWithIconsComponent {
  showMenu = false;

  menuItems = [
    { label: "Dashboard", icon: "home", route: "/dashboard" },
    { label: "Profile", icon: "user", route: "/profile" },
    { label: "Settings", icon: "settings", route: "/settings" },
    { label: "Notifications", icon: "bell", route: "/notifications" },
    { label: "Help", icon: "help-circle", route: "/help" },
    { label: "Logout", icon: "log-out", route: "/logout" },
  ];

  toggleMenu() {
    this.showMenu = !this.showMenu;
  }

  handleItemSelected(event: any) {
    console.log("Selected:", event.label);
    this.showMenu = false;
  }
}

```

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